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Kidney transplant research on the list of Heritage grants

Funding helps solve medical mysteries

By Geoff McMaster

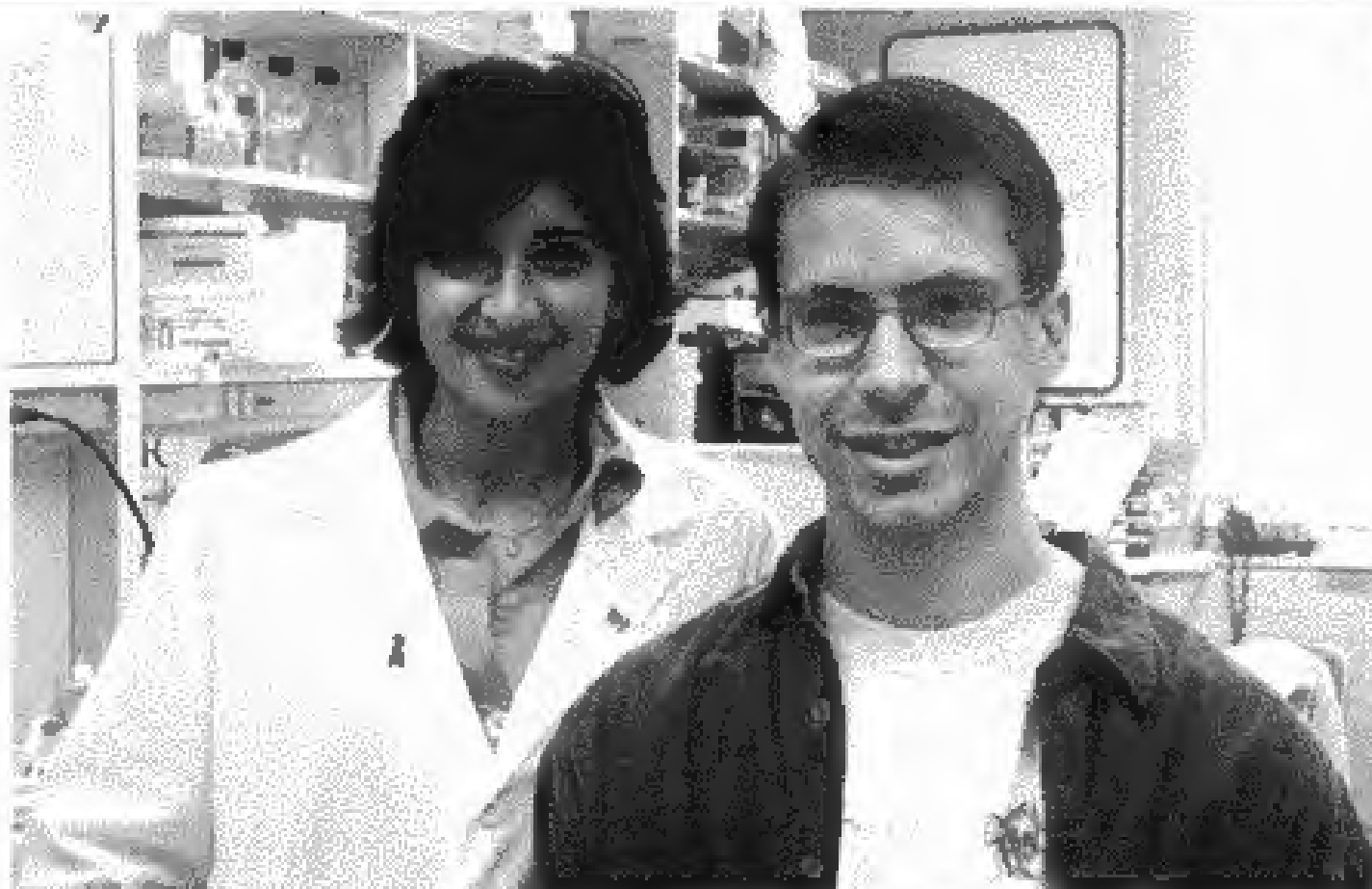
After Sean Moloney's first kidney transplant failed, he spiralled into depression. He had dared to hope that a dreary life of sleeping around the clock, punctuated by visits to the hospital three times a week for dialysis, had finally come to an end. But it took only 36 hours for his immune system to reject the new organ.

"It was pretty devastating, to say the least," says Moloney, 29. "I felt just horrible before the transplant, couldn't get out of bed and had migraines. You get a transplant and think it's going to change everything, and then you're told, 'Sorry, it didn't work and you're going to be on dialysis for the rest of your life.' There's a lot of disbelief, and your mood just drops into the pits."

That was four years ago. Almost two months ago, however, Sean received his second transplant, and partly because of advances in anti-rejection drugs and better control of his immune system, so far so good. He now has more energy than he knows what to do with, spending his days exercising and playing guitar while he waits to enrol in a massage therapy program at Grant MacEwan College.

But it's still early days. The true test will be holding onto the kidney in the coming months and years. That's where Dr. Sita Gourishankar's research comes in. The professor of nephrology and transplantation immunology at the University of Alberta has been awarded \$210,000 from the Alberta Heritage Foundation for Medical Research (AHFMR) to investigate "troubled transplants," or the factors that account for transplant failure long after a patient has made it past the initial risk of rejection.

Gourishankar's grant is one of 20 handed out across six faculties at the U of A, totalling \$1.1 million (\$22 million across the province). AHFMR President Matthew Spencer and Dr. Andy Greenshaw, U of A associate vice-president (research), made the announcement on campus Tuesday.



Dr. Sita Gourishankar's research will help kidney transplant patients like Sean Moloney, who suffered a devastating setback 36 hours after his first transplant, when his body rejected the donated organ.

"Kidney transplantation has been done for many, many years. The difficulty is that no one has been able to give a good description for why these kidneys fail...we don't have a composite picture," said Gourishankar.

"We have historically recorded a lot of information on them and will continue to do so. What I've been funded to do is to establish that database to ensure we have all the important demographic markers, as well as blood, urine and tissue markers."

The fact that Edmonton has one of the highest kidney donation rates in the country, with a current community of 800

transplant recipients, will make her work a little easier, she said.

Ensuring that kidney transplants last is complicated, because there are so many inter-related factors including weight, blood pressure, cholesterol levels and risk of diabetes that all have to be controlled. In North America about 15 to 20 per cent of transplanted kidneys are initially rejected (down from about 40 per cent a decade ago). In the long term, about four per cent of transplants fail every year. Gourishankar's goal is to come up with the first detailed description outlining why these patients run into problems.

Having accurate profiles will also allow clinicians to tailor a patient's immune suppression to suit his or her individual risk factors.

"My hope is that someone like Sean will have a kidney transplant for the duration of his life," said Gourishankar, adding that the profiles "will allow us to detect earlier in him if there is a problem."

It's all good news for Moloney, who has been plagued with kidney disease for almost as long as he can remember. Since his recent kidney transplant, however, life has never been better. "I'd sure like to keep it forever." ■

University approves billion-dollar budget

Faculties face funding allocations in battle against "revenue gap"

By Andrew Lefkovich

The University of Alberta Board of Governors has approved its first billion-dollar budget. And, while the books show an overall excess of revenue over expense, administration wanted board members not to forget the university continues to face severe financial challenges.

"The hard question is how to present such an amazingly complex organization that reflects the hard choices we are making on the operating side while we're showing an overall positive balance at the level of the consolidated budget," said Carl Amrhein, provost and vice-president (academic), who led the budget presentation.

At slightly more than \$1 billion, the university's consolidated budget – which includes operating, capital and research

expenditures – shows an excess of approximately \$13 million.

"That's the number the provincial government is interested in," said Amrhein. "But it's the operating budget that the deans and I have to grapple with."

At \$466 million, the 2004-05 operating budget is what pays salaries and benefits, keeps the lights on, the buildings heated, the mail moving, the snow cleared. For the third year in a row, administration received permission to run a deficit – this year in the order of \$3.8 million (compared to \$6.1 million for 2003-04).

But that dip is deceiving, Amrhein warned. To show an operating deficit of \$3.8 million, the university will employ one-time funding of approximately \$5 million – revenue that may or may not be there next year. More importantly it includes funding reallocations of four or 4.5 per cent for faculties and operating units throughout the university. And there's another \$6.5 million in new revenue the university has to find over the next year.

Taken together, Amrhein says the true reflection of the challenge is a "revenue gap" of \$28.7 million. "That's the number we've been talking about for the past few months. That's the number we will continue to talk about," he said.

The greatest strain on the operating budget continues to be the combination of salaries, benefits and utilities costs. Together they make up close to 90 per cent of the total operating budget. "There isn't a whole lot left after that we can work with," Amrhein said. "This is a very hard budget. Faculties and units are dealing with either



Dr. Carl Amrhein says the university is once again walking a fine line in its budget.

four or 4.5 per cent reallocations; that is the reality."

Phyllis Clark, vice-president (finance and administration), reinforced Amrhein's remarks, adding, "there's no question these reallocations won't happen without a great deal of dislocation around the academy. It is a comment on how resilient we are as an institution that we will cope without sacrificing our fundamental commitment to the

classroom.

"Overall we are on a strong trajectory," Clark said. "We're on track for a balanced operating budget by 2006-07."

The board also voted to approve the university's capital budget of \$139 million for 2004-05, well on the way to a capital program approaching \$1 billion, said Don Hickey, vice-president (facilities and operations). ■

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Board votes to increase parking fees, remove discounts

Extra revenues will prevent funding allocations

By Andrew Lefkovich

The University of Alberta Board of Governors approved parking fee increases that will affect all staff and visitors who park vehicles on campus – and agreed to eliminate special discounts available to some groups.

Among the changes agreed to at the board's March 19 meeting: a \$5 across-the-board increase for all monthly parking; an increase in hourly parking from \$1 - \$1.50 per half hour; and an increase in the daily maximum for visitor parking to \$10.

The Board also agreed to annual adjustments based on cost-of-living increases.

Current discounted rate changes include: a reduced rate for Professors Emeriti, which will be phased out at a rate of \$10 per year; cancellation of discounted coupons available to departments; discounted parking rates for the Faculty Club.

The new rate structure comes into effect September 1. Together, the new fee structure has the potential to realize \$1 million in new revenue annually.

Provost and Vice President (Academic) Dr. Carl Amrhein was prepared for opposition.

"If we don't have a user-pay system, the entire institution covers the cost," he told members of the board. "We need to find \$6.5 million in new revenue; if we don't get it through unpopular decisions like this, we'll have to get it through budget reallocations next year."

Amrhein added that the rate structure is in the range of the cost for private lots in the area. "We can collect these rates without overcharging," he said.

Reuben Kaufman, board academic staff representative, and Lynda Achtem, board non-academic staff representative, opposed the motion.

"I don't think it's fair to people... it's like



Increased parking rates across campus could raise as much as \$1 million per year.

a salary cut," said Achtem, who expressed particular concern about the way the fees will affect part-time and contract staff.

"My academic colleagues share my concern that parking has become a cash cow and it's just going to continue to go up," said Kaufman, who added that it would be more palatable if some of

the extra revenue could be used to help improve public transit services.

No promises were made on that front, but Don Hickey, vice-president (facilities and operations), said a transportation demand management study has begun that will look at all the implications of transportation in the area – including parking. ■

Innocence lost

Where war rages, children fall victim. A U of A professor is trying to come to grips with the ugly truth.

By Cathlin Crowther

In North America, it is common for children to play with toy guns and even to play violent shoot-em-up video games, but it is difficult to imagine a child staring down the barrel of a real AK 47. Yet, in some war-affected regions of the globe, well-trained child soldiers are gunning down enemies as adeptly as any seasoned adult soldier would.

"They're very effective - I mean, young kids are very adept at playing video games. So you can imagine how easy it would be for them to learn how to utilize small arms and light weapons. It doesn't take them very long to learn, and then they become very, very dangerous killers as a result," said University of Alberta political scientist Dr. Andy Knight, organizer of the upcoming Children and War Conference. The conference will include talks from academics and government officials who've worked in the area, as well as from former war-affected children and former child soldiers.

But Knight argues children are affected by war in many respects and explains that the conference will explore the numerous dimensions of the issue.

"This conference is about looking at both sides of the gun. In front of the gun there are those who are victims of the war, and behind the gun there are those who are perpetrators of the atrocities. So you have perpetrators and victims being children, because these kids are in some cases taken out of their homes or off the street when they're seven, eight, nine years old, and they are in some cases dragged, brain-washed and turned into killing machines," he said.

"On the other side of the coin, there are those kids who are going to be victimized as a result. So, I look at both sides of the gun. I look at both of them as being victims, whether they are a perpetrator of war crimes or whether they've been afflicted by a war crime themselves."

Knight explains that children are sometimes used as spies by both government and rebel groups, or as messengers between groups, as soldiers, or as cooks. In addition to this, female children are at risk of sexual exploitation.

"Girls are sometimes used as concubines for the rebel leaders. They become what are called 'bush-wives,' and they produce what we call 'bush babies,'" he explained.

This is the focus of the work of Dr. Charli Carpenter of Drake University, who will be speaking at the conference on what she refers to as 'war babies.'

"This is a category of children that the international community doesn't often talk about as a specific category. And some people have even suggested that they are not really affected by war because they are in fact created by war," she said. Carpenter however, doesn't hold this view. She explains that because war babies are fathered by 'the enemy,' at the end of a war a community will often reject or discriminate against these children.

"This is reflected in the way these children are talked about by people in these societies into which they are born. In Bosnia they are called children of hate, children of the enemy. In Rwanda they're called devil children," she said.

"The research I've done, and that a few other scholars are doing now, suggests that it does have an impact, and in fact it can be a very vulnerable category of child, simply because of social attitudes related to their biological origin."

Carpenter explains that these children are severely impacted on many fronts,



The concept seems to horrifying to be real. But children are victims of war in many ways - from being forced into battle to prostitution and as victims of battle itself. A conference being hosted by the University of Alberta this week examines this often-ignored truth.

including their ability to survive at all, and their sense of identity and family. She is also examining why international organizations have neglected to study or work to improve the lives of these war babies. Carpenter explains that very little has been written on the subject, which makes her work challenging.

Of the few who have worked in this area, some have argued that institutional factors are to blame. Others argue that some countries in the international community may not want to address the issue, in order to cover up the indiscretions of their own soldiers.

"Wherever there's a military culture in the world, there's going to be a culture of prostitution, because impoverished women in war-torn societies have no other way to support themselves and their children," said Carpenter. Because of this, many children across the world have been born of relations between soldiers and local women, including soldiers from UN forces, as well as Canadian and American troops.

"There are a lot of international dimensions to this problem, which I think implicate powerful countries - countries that think of themselves as champions of children's rights," she argues.

Girls are also the focus of University of Wyoming professor Dr. Susan McKay, who will also be speaking at the conference. Like Carpenter, McKay believes there are some misconceptions surrounding her research area. Many, she says, incorrectly believe that girls are simply "camp followers" and are not heavily involved in war. But from Carpenter's research on girls in conflicts in Mozambique, Northern Uganda and Sierra Leone, she has found that women perform important functions in fighting forces.

"Any force is going to have women,



and that's true throughout history. So women in these forces provide the backbone for all kinds of labour - it's child labour, but it's labour that forces need. For example, just the mundane things like gathering food and water, cooking, washing clothes," she said.

She emphasizes that the roles for women are diverse. While women are also exploited sexually, some also become combatants, and serve in battle. Because the international community has misunderstood the role of girls in war, there is little to support girls when conflicts cease.

"When they get back home, if they're so lucky as to return to their home community, the community doesn't know how to deal with them. So they tend to stay hidden even then, and no one ever deals with the issues of how to deal with the girls," she explained.

And because women have been sexually abused, they're stigmatized by their communities. While some make do, in spite of provocation, some leave. In order to support themselves and sometimes their babies, some are forced to rely on further sexual exploitation.

"One of the consequences for them seems to be prostitution, because it's the only way they can get money to survive. So it's a really bad scenario for the girls, though I'm not diminishing the terrible impact for boy children too. But the girls

because of gender discrimination have even more hurdles they must face, and very little ability to deal with them," she said.

The conference is the culmination of the first phase of a three-year project to explore the issue of children in war. After examining the issue of war's impact, Knight explains that his research will turn to examining whatever protections for children in war currently exist. In the last year of the project, Knight will explore the rehabilitation of war-affected children. A workshop or conference will follow each phase of his study, says Knight, whose research is being funded by a number of different organizations, including the Social Sciences and Humanities Research Council (SSHRC), the Canadian International Development Agency (CIDA) and the UN University in Tokyo. ■

FURTHER READING

For more information on how children are affected by war, and what's being done about it, visit these websites:

Dr. Andy Knight's Children and War Conference website:
www.arts.ualberta.ca/childrenandwar
Watchchild:
www.watchchild.org
The Children of War website:
www.thechildrenofwar.org
UNICEF:
www.unicef.org/protection

Internetworking master's program logs on

Only one of its kind in the West, program responds to industry demand

By Geoff McNeenan

It may seem strange in today's technology-obsessed world, but it's tough to find people who can design, implement and manage computer network systems from the ground up.

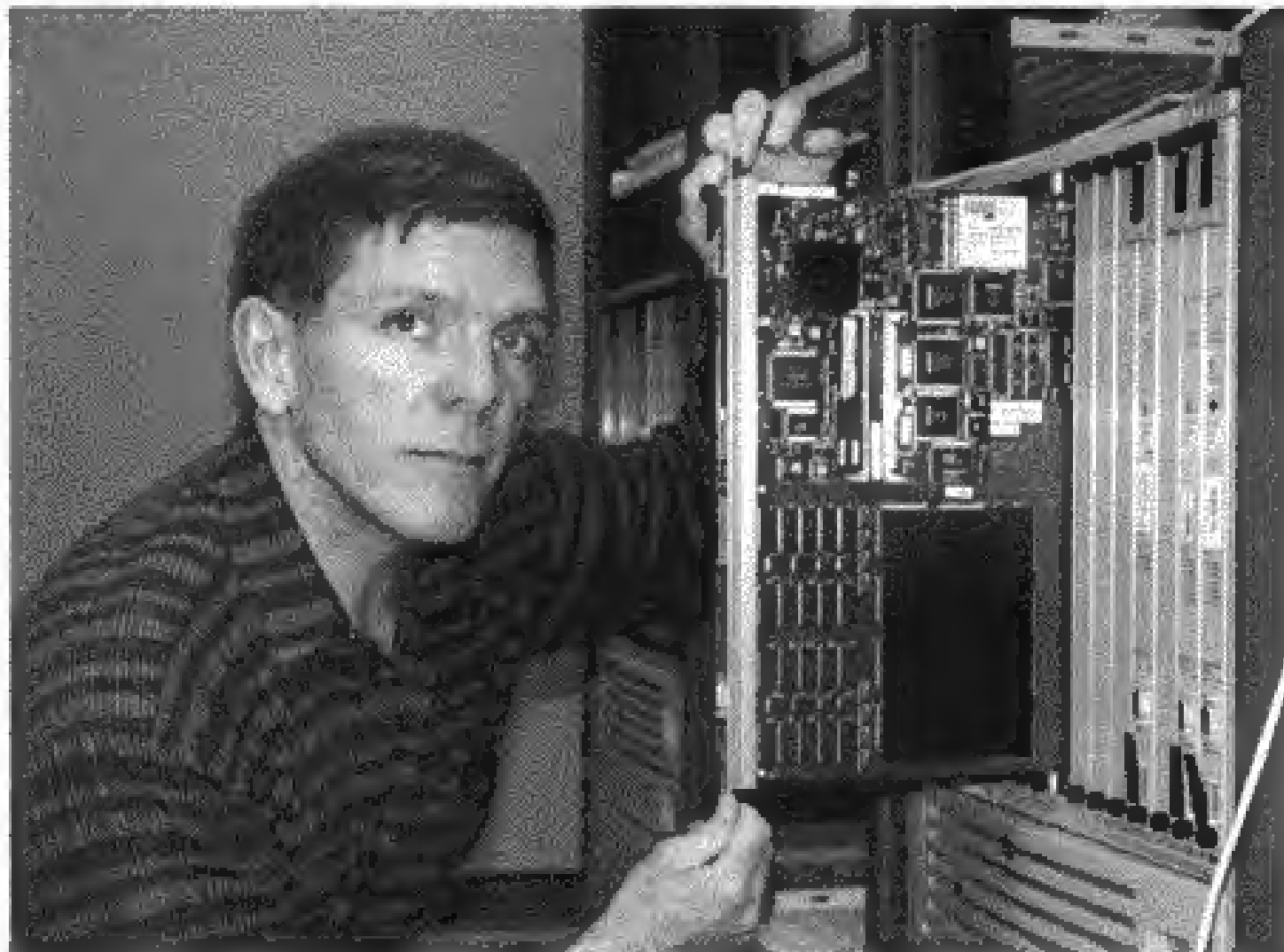
"If you go into the market and try to find somebody who can set up a network, run it, grow it, architect it, you can't find them," said computing science professor Dr. Mike MacGregor. "And it's even tougher to find someone who can design new types of networks and equipment."

That's why the University of Alberta's departments of electrical and computer engineering and computing science have teamed up to create a new master of science in Internetworking. As one of only three such programs in the country and the first in Western Canada, it will aim to produce "technology transfer leaders who will shape the future of this emerging field," said Mark Dale, dean of graduate studies and research.

Set to start next fall, the program is designed for industry professionals seeking to upgrade their theoretical and practical knowledge, taking advantage of collaborative research across two faculties. Its goal is to cover every aspect of Internet technology, from its underlying organization and structure to its technical, business and societal implications.

The field of Internetworking is a combination of the hardware and software of the network. In a simplistic way, that's really what the two departments (of electrical and computer engineering and computing science) bring," said Dr. Steven Dew, associate dean of engineering at the U of A.

Graduates would be capable of developing architecture for complex network implementations or leading Internet-related project teams and business ventures. "One group of folks would go off and operate networks," said MacGregor, the program's new director. "But the folks we're really trying to graduate from here



Dr. Mike MacGregor examines a switch matrix in the new Internetworking lab.

are those who will design the new equipment that the people operating the networks will buy."

The two-year program starts with 10 students in its first year, and classes are scheduled for evenings and weekends to accommodate work schedules. Because the program is expensive to run and will oper-

ate on a full cost-recovery basis, tuition is about \$20,000, MacGregor said.

However the return on investment for these students can be significant, said Gavin Pritchard of Exigent Corporation, the main recruiter of talent for Internetworking companies in Canada. A master's degree "can be the difference

between the \$40,000 and \$50,000 entry-level role," he said.

"And what happens early in one's career makes a huge difference to how it will ultimately evolve over the next 30 to 40 years. The difference over the span of just 10 years can be easily a million dollars." ■

The war on protozoans

Biologist's techniques for detecting contamination in drinking water used around the world

By Yusef Englebert

Dr. Mike Belosevic's lab in the biological sciences building would have to rank among the U of A's most productive and valuable. Data sets and techniques developed here for the purification of drinking water are used in treatment plants the world over.

Specifically dealing with the public health threat caused by protozoans – persistent and potentially harmful organisms – Belosevic's work spans a range of solutions, from detecting the parasites in water to studying ways in which animal immune systems deal with infections.

The culmination of this work is an inexpensive, automated, laser-based technique for assessing the presence of protozoan parasites in drinking water, which is ideal for use by drinking water providers. Though patenting was an option, Belosevic felt the technique was so important for the protection of public health that it should be placed in the public domain. Furthering his battle against these ubiquitous parasites, Belosevic has created ways to successfully inactivate tenacious protozoans where more conventional techniques, such as chlorination of water, are ineffective.

To this end, he has collaborated with Dr. Daniel Smith, the U of A's Canada Research Chair in Environmental Engineering, following up on research he did with the late Dr. Gordon Finch to develop a comprehensive data set for chemical inactivation of protozoa in drink-



It may not look like work but Dr. Mike Belosevic spends plenty of time catching fish to study parasites. Belosevic's research has helped provide safe drinking water the world over.

ing water. He has also worked with Drs. Jim Bolton and Steve Craik on UV inactivation of *Giardia* and *Cryptosporidium*. These data sets are currently being used by the Environmental Protection Agency for the development of drinking water standards in the United States.

Honing in on the dreaded protozoans is no small challenge. They have proven

difficult to detect and even more difficult to kill. In North America alone over the past 20 years there have been more than 100 waterborne outbreaks of gastrointestinal disease caused by the presence of protozoans in drinking water, says Belosevic. "And that is a conservative estimate."

The much-publicized outbreak of disease in North Battleford, Saskatchewan,

for example, was caused by drinking water contaminated with the protozoan *Cryptosporidium* in 2001. In the end more than 3,000 people were infected.

"We've been very successful in the research program," Belosevic is proud to say, describing a collaborative effort between the departments of Biological Sciences and Civil and Environmental Engineering. Pointing to an award he received in 2003 from the ASTech Foundation for Outstanding Achievement in Applied Technology and Innovation, he says "this award doesn't just belong to me, but to an array of graduate students, post-doctoral fellows and technologists."

Working with goldfish and trout housed in a state-of-the-art aquatic facility in the biological sciences building, Belosevic's basic research in animal immune systems now focuses mainly on haematopoiesis (the development of white blood cells) and host defence strategies. "The basic research is about to take a turn towards the applied research," he says as his team begins to focus on the ways impurities and pathogens in the environment impinge on the immune system.

Belosevic also finds time to train the next generation of researchers. And if that takes being in two places at once, so be it. His award-winning Zoology 352 class is taught in Calgary and Edmonton simultaneously via real time video conferencing, with a combined enrolment of 140 students. ■

How does the rodent cross the road?

Safety, thanks to new study

By Phoebe Day

Voles are pedestrians, too, and need just as much help crossing the road as bigger animals, according to new research from the University of Alberta.

"Concerning crossing structures on roads, there has been a mindset that bigger is better – driven by research on large mammals and especially bears," said Dr. Colleen Cassidy St. Clair, of the U of A's Department of Biological Sciences. "This research shows that small affordable culverts, which can be placed with high frequencies while building roads, are very effective conduits for small mammals."

The study, recently published in the *Journal of Applied Ecology*, investigated how small mammals – meadow voles, red-backed voles and deer mice – used crossing structures built across the Trans-Canada Highway. St. Clair and then-graduate student Wayne McDonald looked at size, vegetative cover at the entrances of the structures and the distance from home ranges to determine what kind of structures the animals would use the most.

McDonald captured each animal three separate times on one side at several different crossing structures to ensure that they had residency at that spot. He then moved the 166 animals to the other side of the structure and released them – giving them



A new study shows that small mammals, such as this red-backed vole, use small, affordable culverts to safely cross their way past highways.

a motivation to return "home." Before the release the researchers coated the animals with fluorescent dye so that, with a black light, they could monitor their return paths.

"We were apprehensive about the possibility that this manipulation would set animals up to be killed while trying to cross the road," said St. Clair. "However,

we reasoned that they have to do this anyway as part of living beside a highway and we wanted to know how hard it is for them to cross. They appear to be pretty good at it. Not a single animal died in the two years of study and those that were not able to return on their own were captured and returned by Wayne."

More than half the captured animals made it home on their own and McDonald recaptured the ones who didn't and took them back himself.

The bottom line, says St. Clair, is that small covered culverts, which offer protection from other animals, are more attractive to these tiny mammals. The research has already caused one of the paper's referees, who had offered expert opinion on some new road construction in Colorado, to change his instructions to the builders – asking for more culverts.

"Overall, the paper has some potential to help people appreciate that conservation involves more than big furry animals and that some quite affordable mitigation can also be quite effective for small animals," said St. Clair. "This potential could be realized in Banff where this study was conducted (and) where plans to twin another section of highway are currently underway." ■

\$26 million will smooth Augustana merger

Funds will erase university's debt, build new library

By Richard Calway

Plans for a merger between the University of Alberta and Augustana University College in Camrose cleared a major hurdle today with the announcement of \$26 million in provincial funding.

During a news conference held at the rural institution, about 100 km southeast of Edmonton, the province announced \$12 million in capital funding for Augustana, \$7 million in additional annual operating funds and one-time funding of \$7 million to ensure a smooth transition between the institutions.

The \$12 million in capital funding will be used to modernize and/or replace existing classrooms, research and administrative space when Augustana officially merges with the U of A later this year.

Dr. Roger Epp, acting dean of Augustana, said the money will be used to build a new library and renovate or build new classroom and lab spaces.

The one-time funding of \$7 million "clears outstanding debts and covers outstanding liabilities," Epp said. The merger between the two institutions comes as a result of financial hardships faced by the rural university. "For us in our recent history it was an albatross," said Epp. "This will wipe the slate clean and that was certainly and understandably crucial to the U of A."

The U of A's Vice President (External Relations) Susan Green, on hand for the announcement, said the funding commitment removes perhaps the most significant hurdle in reaching the planned July 1 merger.

"What we really needed along with all the goodwill which there has been on the part of Alberta Learning, Alberta Infrastructure, the U of A and Augustana, is this funding both in the transition and in the confirmation that operating costs will be met, and the immediate injection of capital funds," she said.

Green added that she was impressed by the enthusiasm the Camrose community has for the merger.

"Just standing up there and looking at the faces and then speaking with the people there – this is a very big thing in Camrose. People are absolutely delighted."

The funding was announced by Alberta Infrastructure Minister Ty Lund and Learning Minister Dr. Lyle Oberg. "I believe strongly in having rural post-secondary institutions that are strong and active in our rural communities," Oberg stated.

"I believe that Augustana College is probably the best example of that that we have right now in Alberta. With the university coming in and starting to give



Roger Epp says new provincial funding solves Augustana's financial woes and clears the path to a merger between the U of A and the Camrose-based university.

courses at Augustana, assuming leadership at Augustana, what you are going to see is Augustana College absolutely take off," he added.

Lund said the funding fulfills a provincial goal "to bring post-secondary education and continual learning out to the communities." ■

WestJet head earns business leadership award

Clive Beddoe credits team, not its leader, for airline's success

By Jason Cameron

Crediting his company's high-flying success to teamwork, WestJet president Clive Beddoe accepted a prestigious business award from the University of Alberta.

"Leadership is like a lady," Beddoe, chairman, president and CEO of WestJet, told his audience at the Shaw Conference Centre. "You only have to say you are one when you're not." The affable business leader was speaking to more than 800 attendees at the 23rd annual U of A School of Business Canadian Business Leader Award dinner March 17. Included

in the audience were former recipients Rick George, Gerry Meier, Stan Mihner, Eric Newell, John Proke, Jerry Shaw, Robert Stollery and Harriet Winspear, representing her late husband Francis.

Beddoe attributed the quote to former British Prime Minister Margaret Thatcher, and said he was honoured to receive the award, but added that he was "uncomfortable" with the title of leader. Instead, he gave the credit for the success of his company to his executive team and to his employees, insisting, despite testimony

from WestJet VP Don Bell, that he was "not really much of a leader at all."

Others beg to differ. "Beddoe has succeeded in circumstances that have crumbled others. He took care not only of his bottom line, but of his employees and his customers as well," said Dr. Mike Percy, dean of the U of A School of Business. "Clive Beddoe is assuredly a worthy recipient of this award."

The self-effacing Beddoe related how his company, modelled after the United States' Southwest Airline, was able to

take advantage of a great opportunity in Canada, namely a surprisingly elastic market coupled with the lack of affordable air travel and the poor customer service offered by the existing national airlines.

After just eight years in operation, WestJet has reported 27 consecutive profitable quarters, grown from three planes and 220 employees to 50 planes and more than 4,100 employees. WestJet plans to expand its service to the United States this summer. WestJet has achieved this remarkable growth in an industry that reports a 97-per-cent failure rate. ■

Getting to the heart (and lungs) of the matter

PhD student's stunning find turns heads in exercise physiology

By Jane Murty

There's no question that exercise is good for us, but can we get too much of a good thing? Some research seems to indicate that when we train hard – to the point of exhaustion – lung and heart damage may occur. But is it really damage?

University of Alberta PhD student Mike Stickland thinks it just might be the body's perfectly natural reaction to high-intensity training. And he's rocking the exercise physiology world with a theory that may rewrite the book on how blood flows through the lungs during exercise. Recently the American Physiology Society recognized his breakthrough work with an award.

Stickland is studying cardiopulmonary function in endurance athletes – a fitting topic considering he's ranked among the top five road cyclists in Alberta and one of Canada's top 10, with a string of provincial, national and international results under his belt – he has raced against cyclist who competed in last year's Tour de France, and now coaches some of the country's leading racers.

"An interesting thing happens during exercise," he said of his research. "The lungs lose their ability to oxygenate the blood. Surprisingly, the very people you'd expect to have very good lungs – endurance athletes – actually get the greatest impairment to lung function."

Much of the previous research had hypothesized that during exercise, the lungs develop edema, or damage due to the high blood pressure in the lungs. Stickland and his supervisory committee – a mélange of some of the university's finest medical minds in heart and lung function research including Drs. Rob Welsh (Cardiology), Richard Jones (Pulmonary Medicine), Stu Petersen and Marcel Bruffard (Physical Education and Recreation), Mark Haykowsky (Rehabilitation Medicine) – thought that during intense exercise a phenomenon called shunt, not edema, occurs. It's a bit like a railway switch which shunts the train in another direction: in the body, blood destined for the lungs actually bypasses the area where oxygen is taken



One of Canada's top cyclists, Mike Stickland has made some amazing discoveries about what happens to athletes during intense exercise. His research involved real-time observations of heart and lung function. Above, Stickland himself participated as a test subject in the study with (l-r) master's student Ray Nugent, sonographer Allen McLean, and cardiologist Dr. Robert Welsh.

up, missing the gas exchange entirely during intense exercise.

To find out if this is in fact what takes place, a specialized catheter was inserted into the arm and snaked into the heart of a research subject, allowing Stickland and his team to measure pressures around the heart. At the same time, an echocardiogram captured images of the heart, and measured arterial oxygen content through a second probe, a catheter in the radial artery.

The experiment was technically demanding.

Inserting the heart catheter is an invasive procedure – a procedure done every day in cardiology, but only a few times in the world to date done during exercise – this can only be performed by a specialized cardiologist, in this case Dr. Rob Welsh.

"To measure shunt we found a simple technique where we agitate saline to make

tiny bubbles (I think of a glass of 7-Up), then we inject this solution into the right side of the heart. During exercise we saw that these large bubbles went through the lungs and ended up in the left side of the heart," said Stickland. The results of the study indicate that the change in lung function is due to shunt, rather than exercise-induced damage.

Stickland's work has been attracting the attention of some of the world's most notable scholars in exercise physiology, including the Dr. Jerome Dempsey of the University of Wisconsin, with whom Stickland begins post-doctoral work in July this year. Dempsey, a world-renowned expert in lung function, was so taken with Stickland's theory, he asked to investigate the question in his own laboratory. Sure enough, Dempsey's lab was seeing shunt as well. "That's pretty big!" said an excited Stickland. "The fact that these shunts

"Because this research helps us to understand heart function very well, a logical next step is to look at heart failure in clinical patients."

– Mike Stickland



are occurring will change how basic gas exchange is evaluated in a clinical setting.

"Because this research helps us to understand heart function very well, a logical next step is to look at heart failure in clinical patients," he said.

"I believe exercise is a good model to be able to understand physiology, and then the study of exercise in the prevention of disease." ■

Year of Czech music marks many milestones

Kick-off concert celebrates works of Dvorák, Suk and Novak

By Gilbert A. Beuchard

Internationally renowned pianist Antonín Kubálek celebrates the rich musical tradition of the Czech Republic and its people in a special Easter Sunday concert at the University of Alberta.

Called *A Czech Piano Recital*, this unique April 11 concert highlights some less-presented musical offerings by brilliant Czech-affiliated composers like Antonín Dvorák, Josef Suk and Vítězslav Novák.

The recital is presented by The Wirth Institute for Austrian and Central European Studies in association with the Czech and Slovak Society of Arts and Sciences of Alberta (SVU) and The U of A's Department of Music. The event is part of a special Year of Czech Music dedicated by the Czech Ministry of Culture to mark a bevy of musical milestones being commemorated in 2004, including the centennial of Dvorák's death.

"It's nice to have Canada join in the celebration," said the Czech-born Kubálek in a phone interview from his Toronto home. "After playing in Edmonton I'm doing concerts in Calgary and Toronto and then I'm going back to the Czech Republic for a series of concerts."

Kubálek, who moved to Canada in 1968, has performed several times in

Edmonton, including a seminal pairing with Czech violinist Ivan Zemaný in 1990. Not only is Kubálek thrilled to be able to evangelize the worth of these particular composers to the global piano repertoire, he's looking forward to playing some four-decade bodies of work including Dvorák's "gentle and happy" *Silhouettes*, and Suk's challenging *Abner Mother* sequence. This latter work was dedicated to the composer's son, and was written to commemorate the untimely premature death of a beloved wife and mother Suk's child would never know first-hand.

"Suk's *Abner Mother* is deeply intimate music and interesting to see from a compositional point of view how he worked in themes from an earlier love song (a piano piece written when he was 17 and dedicated to his future wife) and the death scene from the *Arael* symphony."

For SVU president Paul Jelen, a professor with the U of A's Department of Agricultural, Food and Nutritional Science, this concert, and others like it in the year-long celebration of Czech music, underlines the disproportional importance of music to Czech and Central European society and culture.

"You have a saying in the Czech tradi-

tion that goes 'every Czech is a musician's heart,'" said Jelen, a passionate amateur music lover who sees his work in the arts as a valuable "counterpoint" to his scientific activities and a source of great passion, especially since the fall of the Soviet Empire in the late 1980s.

"To that end our society has been active in developing Czech music programs for several years," he said, noting that it has collaborated with the Wirth Institute and the Music Department several times in the past, including the 1990 concert CD recording of Kubálek and Zemaný.

According to Dr. František Šabro, director of The Wirth Institute for Austrian and Central European Studies, musical projects are an important part of his group's activities for a number of reasons, including music's great universality and accessibility.

"There's such a rich cultural tradition in Central Europe. If you ask most people to list their favourite composers, it's likely that seven of their top 10 choices would be from Central Europe including giants like Mozart, Beethoven and Haydn."

Šabro lauds the Roman Catholic Counter-Reformation's broad encouragement of musical and artistic expression in the largely Catholic region, and the area's

"There's such a rich cultural tradition in Central Europe. If you ask most people to list their favourite composers, it's likely that seven of their top 10 choices would be from Central Europe including giants like Mozart, Beethoven and Haydn."

– Dr. František Šabro

multicultural reality as key factors in the rise of Central Europe's reputation as "the Conservatoire of Europe".

"The multirhythmic nature of the area does account for the cultural richness of Central Europe," he said, underlining music's role as a valuable "universal language" in a vast empire (the Habsburg Monarchy that evolved into the Austria-Hungary Empire) that boasted more than a dozen official languages.

"In such a deeply pluralistic society, culture is the glue that keeps society together." ■

Math prof advises China on science policy

Sam Shen urges his homeland to invest in impoverished rural centres

By Bev Bellowski

A University of Alberta scientist is using his knowledge to help his birthplace of rural China find a footing on the world stage of research and technology.

Dr. Sam Shen, a professor of mathematical and statistical sciences at the U of A, has been asked to serve on a 10-member advisory committee to the Chinese Ministry of Science and Technology (MOST). The 10 members are Chinese academics from universities including MIT, Michigan and Berkeley. Shen is the only member from Canada. The group advises high-ranking officials in the Chinese government on science and technology policies.

Shen, who in 1994 developed what is now a widely used formula to help measure errors in the assessment of global warming, grew up in China's impoverished countryside. He considers himself fortunate to have been able to finish his 10 years of basic schooling, the maximum allowed at the time.

"I was one of the luckiest ones. My parents were generous enough to let me finish school. My father valued education even though he only had two years of school. My mother never went to school and cannot read a word," he said.

Shen's older brother and most of his playmates were only granted a scant Grade 3 education before being put to work on their families' farms, out of necessity. To earn money for his school supplies, Shen carried firewood to a town 10 km from his home.

Convincing the Chinese government to educate its rural poor is one of Shen's major goals. Politicians are more interested in developing China's cities to attract foreign investment and growth, but the countryside can't be ignored, Shen said.

"They say, eventually the rich people will help the poor people. My argument to them is to look at the statistics." In studying his own village, Shen said the contrast was obvious. "I could see that extremely poor people never finished elementary



Dr. Sam Shen (left) with Chinese Premier Wen Jiabao. Photo credit: Bev Bellowski

school (but) people who have finished high school are not poor."

About 400 million people, one-third of the Chinese population, live in rural poverty.

The committee Shen serves is helping develop a 20-year strategic plan to bring his home country up to par on a global standard.

In his advisory role, Shen has presented five goals to MOST, including sinking \$10 billion U.S. a year for five years into infrastructure and schools for rural China to stimulate the economy; to make rural education a priority; to establish a patent and grant service program for scientists; and to establish an immigration program that would encour-

age foreign scientists and administrators to bring their talents to China.

Shen disagrees with those who view China, traditionally a closed country, as a potential threat. "We have so many poor people in the countryside, we need to make the government more open, and only the educated people can do it. Poor China will make the government closed, and that will be more dangerous to the world. China is many years behind, it needs to have educated people, and these people will help the government to be more open."

China's enormity has economic advantages for the rest of the globe, Shen added.

"I was one of the luckiest ones. My parents were generous enough to let me finish school.

My father valued education even though he only had two years of school. My mother never went to school and cannot read a word."

— Dr. Sam Shen

"Prosperous China will be helpful to the world, because it has one-fifth of the world population. A moderately rich China will provide a bigger market to the world."

With such problems as epidemics and terrorism shrinking the global village, collaboration amongst all countries is "more important than ever before," Shen believes.

The U of A will also benefit from his collaboration with MOST, said Shen. "It's very important for the U of A to attract the top talents from China. Chinese people only know Toronto, Ottawa, Vancouver. They don't know Edmonton—we need many people to promote the U of A in China."

Shen is asking MOST to invest money in developing joint research programs with the U of A.

"For the U of A and Dr. Shen, the selection represents a tremendous boost in reputation," said Dr. Rolf Mirus, a professor at the U of A School of Business, who has spent years helping develop a business school at an engineering university in China. "His appointment is known all over China, with the result that Chinese students will look to Canada and the U of A for graduate training."

The "international nature" of the post also links Shen and the U of A to top American and European academics as well as those in China, Mirus added. ■

\$500,000 given for nano-research

Michael Brett earns funding from ICORE, Micralyne, NSERC

By Geoff McMaster

Dr. Michael Brett, a leading researcher in the emerging field of nanotechnology at the University of Alberta, has received a \$500,000 boost to his industrial research chair.

The grant will help Brett commercialize the results of his research, which focuses on developing extremely thin films used in such high-tech applications as magnetic storage, integrated circuits and optical components.

Recognizing how important this work will be to future technologies, the Informatics Circle of Research Excellence (ICORE) – an organization created by the Alberta government to support information and communications technology – has joined the Natural Sciences and Engineering Research Council (NSERC) and a U of A spinoff company called Micralyne to fund Brett's research program to the tune of \$1.9 million over five years.

"People like Brett just gather such strong teams around them, and everybody believes, and that's what makes it happen," said Mary Anne Moser, director of communications for ICORE. "He is pushing it to the prototype stage, so it's not just ideas anymore. He has a number of patents pending."

Though still widely regarded to be in its infancy, the hope is nanotechnology, or working with materials on the molecular level, will produce new materials with the potential to profoundly change our daily lives and help in the fight against disease.

Nanotechnology has already produced 25 spinoff jobs and a number of spinoff companies from the U of A. The Edmonton-based Micralyne, for example, is considered a world leader in the design and fabrication of micro-machined glass, silicon and thin-film components used largely in micro-chips.

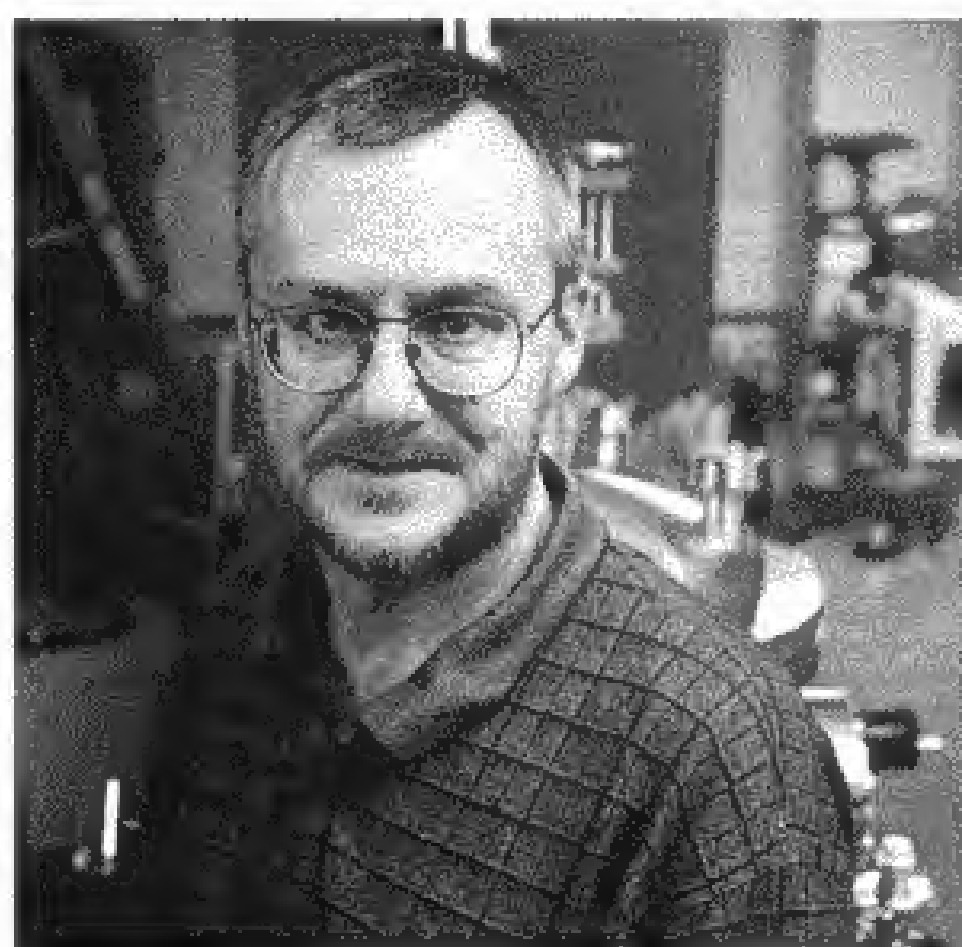
Brett attributes much of the strength of his program to the team he's managed to assemble. "One of the reasons we have been able to attract excellent graduate students is that students are very excited to be the first ones to produce new structures in totally new research territory," he said.

ICORE had been supporting Brett for several years, but adding its name to create the Micralyne/NSERC/ICORE Industrial Chair in Thin Film Engineering takes that support to a whole new level, said Dr. Brian Unger, ICORE's president.

"We are very pleased with Mike's program in general, and because he's now getting industrial money (from Micralyne), we thought we should encourage and support that," said Unger.

"We are very pleased with Mike's program in general, and because he's now getting industrial money (from Micralyne), we thought we should encourage and support that."

— Dr. Brian Unger



Dr. Michael Brett says his research attracts graduate students as well as funding.

ICORE will contribute \$100,000 a year for five years to Brett's program. NSERC is contributing \$140,000 per year and

Micralyne is pitching in \$115,000 per year in cash and another \$24,000 in cash-equivalent contributions. ■

Riding high on the ultimate feeling

Who knew a small, plastic disk could take you so far?

By Geoff McMaster

Jennifer Nicholls admits she never liked team sports much in high school. A shy, self-conscious teenager, she preferred the solitude of a long bike ride. But in 1995 some friends invited her to try a new game, and she was hooked.

"I started out as the geeky, overweight high-schooler and just kept at it," says Nicholls, an international admissions advisor in the registrar's office. "It was something I could actually do..."

"Having been in individual sports for so much of my life I wasn't sure how to deal with team mates. But when there's a system and you're part of that system and trust everyone on the field to do their job, it's an incredible feeling."

A feeling so incredible, in fact, that it propelled her to a world championship in Ultimate (Frisbee, that is) with the co-ed Canadian team in 1998, and a silver medal in 2003. This summer her team will battle it out once again for the world title in Turku, Finland. She also coaches a U of A women's team and a junior girls team, all of which takes up most of her free time.

Ultimate is quickly becoming one of the most popular sports around, says Nicholls.

What started as a "barefoot-in-the-park" amusement on a sunny day has become highly organized and competitive over the past decade. "At a higher level, you're planning your next game, who your teams are, when you need to go to sleep, what you need to eat - it's very structured," she says.

With seven players a side, Ultimate combines a little football, a little soccer and a little basketball. The Frisbee is thrown down the field from player to player, with the receiver stopping where he or she catches it before throwing it on. A goal is scored when a receiver catches the Frisbee in the end zone.

"Ski racers lend themselves very well to ultimate, and soccer players," says Nicholls. For the most part, disputes are worked out among the players. When quarrels can't be resolved at the higher levels of competition, there are "observers" on the sidelines who make the final call.

One highlight that stands out for Nicholls is the day her city team won the national championship at home in 2001. Her parents drove up from Calgary to watch the tournament, but her dad was so

"The first thing I did when I was in Melbourne was

find a contact and ask, 'Where is a pick-up game?'

I found one and went to the nationals with them.

It's still a small enough sport that you still have

that community wherever you're going."

- Jennifer Nicholls

worked up he could barely stand to witness the competition.

"My dad was kind of a nervous fellow," says Nicholls. "He spent the week here to watch us but spent most of his time wandering the other fields trying not to look interested. He'd check in every once in a while to see what was going on. He would ask what the score was and leave."

Nicholls' greatest personal triumph, however, came just last fall when she helped the women's university team win the championship at the University of British Columbia and was named MVP. Just one more great moment in a sport

that has given her far more than she ever thought it could.

"It's given me a very good sense of self," she says. "Find something you like and do well at, meeting new people, getting positive feedback. And even if you don't win, you still have that sense of team."

She says Ultimate has also proven to be one of the best ways to meet people while travelling. She once spent some time in Australia. "The first thing I did when I was in Melbourne was find a contact and ask, 'Where is a pick-up game?' I found one and went to the nationals with them."

"It's still a small enough sport that you still have that community wherever you're going."

To see a video clip of Nicholls' team winning the nationals against UBC, visit: <https://www.canadianultimate.com/russ/video.htm>.

(Ultimate R & R is a regular feature in Folio profiling the unique off-campus passions of university faculty and staff. If you have a story suggestion contact Geoff McMaster at geoff.mcmaster@ualberta.ca or Richard Cairney at



Where's it going? Good luck guessing. Jennifer Nicholls takes out the opposition during game of Ultimate between university administration and the Students' Union recently. Nicholls was a special "recruit" to the University Hall squad, playing a key role in the team's victory.

Greener pastures for Lister Field

Students chip in for new turf

By Ray Battowick

A team effort has given the University of Alberta's Lister Field a new face for spring and put campus athletes on a firmer footing.

The heavily used recreation space just south of the Lister Centre Complex gets a facelift with Field Turf, a new state-of-the-art rubber in-fill surface topped with synthetic grass. The new artificial surface replaces a worn-out one that was laid down in 1988.

The \$500,000 project was made possible by the combined efforts of U of A administration, the Faculty of Physical Education and Recreation and students themselves, said Hugh Hoyle, director of campus recreation.

Support of the project is especially significant for the message it sends, he added. "There is a recognition on the part of students and university administration of how

important it is to have recreational green space," Hoyle said.

The popular playing field, which is flood-lit and can be used up to 11 p.m., gets a workout from staff and student campus recreation programs like Ultimate Frisbee and soccer, community and casual use and for teaching purposes.

Work on Lister Field begins this spring as soon as the snow is melted, and is expected to wrap up by mid-June, with the field ready for use by July 1. The old field, which measures 86 metres long by 72 metres wide, had a sand-based surface that tended to leave players raw and sore when they took a tumble.

"You'd get scraped like crazy. We had a lot of complaints about the abrasive nature of the field," Hoyle said.

Tyler Botten agreed. The fourth-year science student plays flag football on the

field and has suffered his share of injuries. "You could get some serious road rash - I got burned a couple of times." As vice-president of Operations and Finance for the U of A Students' Union (SU), he was glad to see the students contribute money to the project.

The U of A provided \$350,000 through the Infrastructure Renewal Grant given by the government. Another \$150,000 came from the Campus Recreation Enhancement Fund Committee (CREFC), a group administered jointly by the SU and the Recreation Action Committee (RAC), another student group.

Most projects funded by RAC are "one year, one-off projects," but this was a long-term vision, Botten noted. "It was nice to be able to contribute to that. Not everyone thinks beyond the time they are here on campus."

RAC set aside some of its funds annually for the past few years to contribute to the remaking of Lister Field, said Charles Haun, chair of the CREFC committee. "It's a great effort by the students to be able to contribute to the progress of their own university," Haun said.

The field is used by thousands of students and staff from April to October each year.

The joint funding sends an encouraging message to government, said Hugh Warren, director of infrastructure for facilities management at the U of A.

"We can demonstrate to the government that the university has the ability to bring other money to bear to make projects like this work," Warren noted. "We're making the best use of the money. It makes selling a project a lot easier." ■

Art installations tell student stories

Students draw upon lessons to convert old labs into art space

By Stuart Sandison

Students have taken over abandoned rooms in South Lab, transforming old offices into art projects as part of a senior art and design course.

Art and design professor Lyndal Osborne created the class last year in the hopes of combining students' skills from other art and design classes into one large project. "What I'm attempting to do in this class is have the students bring experience from their compartmentalized courses and their creative ideas together," she said.

Students are required to transform a room into a piece of art. Most often painting, sculptures, printmaking and lighting effects are used, though sometimes dance and theatrical elements are employed as well.

Student Kelly Johner's family was affected by the Mad Cow crisis and has made a poignant installation from hay bales and animal bones from her farm. Kristin Chrzanoski explores her family lineage using thread strung across the room. When you walk into Laura Muir's space, you find yourself looking up at lily pads and insects – a bottom-of-the-pond perspective influenced by her biology studies.

Growing up in a single-parent family that moved around a lot, first-year BFA student Daniel Godwin wanted to create a piece that centered around his upbringing, where nothing was permanent.

When you walk into his space, you see what could be a small furnished apartment, but everything has been covered with cardboard.

"We were always in a state of packing or unpacking, and that translated into me covering all the objects in my piece with cardboard. It's an attempt to display the permanence of a transient lifestyle," Godwin said.

Third-year BFA student Andrea Pinheiro took a different approach when she was first assigned her room: she walked around, examining every little mark and scratch on the walls and floor, and built her display around the room's history.

Finding an inscription on the wall indicating that a basin was for radioactive waste only, she was inspired to look at the idea of permanence in a building.

"Part of the process that I'm trying to show in my work is although no one's occupation is permanent, we still leave something behind," she said. Pinheiro has taken books donated by the library, painted them white and stuck them on the beige brick walls.

She also made plaster casts of other sinks in the building and hung them from the ceiling before splashing wax on the books, walls and floor.

In contrast to the room's paleness, little glass vials on the wall are filled with a metallic powder.

"I'm having material in these little vials pour out onto the floor, and I'm hoping that it will get on the viewer's shoes and they'll track it through the space, leaving evidence that they were here," Pinheiro explained.

Last year the class was held in the old greenhouse trailers, which have since been destroyed. Osborne found some abandoned offices in South Lab, and arranged use of the space for her class this year. As South Lab is scheduled for renovations next year, Osborne is seeking an alternate location to continue offering the class.

Although Osborne is retiring this spring, she has high hopes for the future of this course. "What I'd like to see is a place where it can be set up as a legitimate art program, so we'd need a workshop and a dedicated instructor," she said.

The general public is invited to view the students' work from 9 a.m. – 9 p.m. April 6, in South Lab room 202. There will also be a reception from 7 – 9 p.m. ■



Installation exhibits have transformed the South Lab. The works include (at top left) Ashley Shepherd's red cardboard boxes, demonstrating the mental state of claustrophobia; (top right) Andrea Pinheiro's display, which taps into a room's history while becoming part of it; Kelly Johner's animal bones, hay and cow figures (centre and upper left), which illustrate her family farm's experience with Mad Cow disease; and (left) Daniel Godwin's installation *Constructing Family*, a recreation of the transient nature of his upbringing.

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Student Lisa Tidman with Al-Pac CEO Bill Hunter, annual award for forestry studies.

Al-Pac invests \$120,000 in scholarships

Student earns unexpected award

By Cynthia Strassen

Imagine getting a letter, about a month before finishing your degree, saying that you've been awarded \$5,000. That's what happened to Lisa Tidman, an Environmental and Conservation Science student at the University of Alberta.

The award is the result of a \$120,000 endowment created by Alberta-Pacific Forest Industries Inc. (Al-Pac) that will generate an annual \$5,000 scholarship. The Alberta-Pacific Forest Industries Make A Difference Leadership Scholarship will be awarded each year to a student entering his or her fourth year of study in the BSc Forestry, BSc Forest Business Management or BSc Environmental and Conservation Sciences degree program at the U of A. Scholarly achievement and demonstrated leadership skills are the key criteria.

The academic standard required is generally an average of around 95 per cent for this caliber of scholarship. Tidman, a native of Fort Saskatchewan, achieved that and has a résumé loaded with extracurricular volunteer and leadership roles. She also had the opportunity to work in Al-Pac's Forest Management Agreement Area in the summer of 2003.

"I worked for (U of A professor) Dr. Fiona Schmiegelow at the House River Fire Salvage Study, where we studied the importance of fire severity and salvage logging on woodpeckers and beetle fauna," Tidman said. "During my work up north, I realized the complexity and beauty of the boreal forest, and my hatred for black flies and fear of moose."

"Mostly I learned that forest companies

like Al-Pac play a vital role in our society and their promotion of environmental education and research is invaluable."

Al-Pac also wants to recognize its responsibility to help ensure the future of environmental and forest education and research in Canada. The Canadian forest sector is the single largest industrial contributor to the economy and is also one of the largest employers, generating one million jobs. In Alberta alone, 52 communities depend on forestry as a primary employer.

"We need to do our part to ensure that, like our forests, we are growing our future," said Bill Hunter, Al-Pac president and chief operating officer. "Whether students are in forestry, forest business management or environmental and conservation sciences, we want to ensure that they have access to the financial resources to complete their studies. Those students who are making a difference now will be the leaders of this sector tomorrow."

Tidman echoes Hunter's emphasis on the importance of making a difference, and said Al-Pac's investment also makes a significant impact. "This scholarship is making a difference for the university, by signifying its importance in research, knowledge, and investment in their students. It is making a difference for the environmental and conservation realm by acknowledging its importance to the forest industry," she said.

"And lastly, this scholarship is making a difference in my life, acting as encouragement and proof that my hard work throughout the past four years has not gone unrecognized." ■

Depression leads to back pain

Study shows one promotes the other

By Ryan Smith

It is well documented that physical pain can lead to feelings of depression, but a new study from the University of Alberta shows the reverse can be true, as well.

Dr. Linda Carroll, a professor in the U of A Department of Public Health Sciences, led the study that shows depression is a risk factor for onset of severe neck and low back pain. The study is published in the journal *Pain*.

Carroll and her colleagues followed a random sample of nearly 800 adults without neck and low back pain and found that people who suffer from depression are four times as likely to develop intense or disabling neck and low back pain than those who are not depressed.

"We've known for a long time that pain can lead to depression, and now we're finding that each is a risk for the other," Carroll said. "Both conditions are recurrent, that is, they can both come and go; and both are very common—in fact, only 20 per cent of the population has not experienced any neck or low back pain in the past six months—so it's important to

try to deal with these conditions before they become troublesome and lead to a vicious cycle."

Carroll is now interested in figuring out why the two conditions are commonly related, and she is focusing her research on the coping methods of people with depression, a condition researchers have long known to be associated with physical ailments.

There are two broad ways people can cope with pain, Carroll said. One is to be passive, which entails such things as withdrawing from activities because of the pain or wishing for better pain medication. The other is to be active, which entails getting exercise and staying busy, for example.

"We're wondering if depression leads people to cope passively when they experience the kinds of mild pain episodes that most of us are periodically subject to. This in turn may increase the likelihood that pain will become a problem in someone's life. The next step is to answer this question," added Carroll, whose research is sponsored by the Alberta Heritage Foundation for Medical Research. ■

talks & events

Submit your event or event to Campus Calendar by 2 p.m. Thursday one week prior to publication. Poster talks and research findings will no longer accept submissions via fax, email or phone. Please enter events yourself. Site to appear in this and on CampusCalendar at: <http://www.ualberta.ca/academic/calendar.htm>

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UNTIL MAY 21 2004

2004 Spring International Symposium for Child Abuse & Neglect
The 2004 Spring International Symposium for Child Abuse & Neglect is a chance for researchers to present their work and to learn about the latest research in the field of child abuse and neglect. The symposium is open to all researchers who are interested in the field of child abuse and neglect. The symposium is open to all researchers who are interested in the field of child abuse and neglect.

UNTIL JUNE 30 2004

Beyond Three Walls: Sample Community Service Recognition Program
The University of Alberta is proud to recognize the contributions of its students to the community. The program is open to all students who are interested in the field of community service. The program is open to all students who are interested in the field of community service.

APR. 1 - APR. 5 2004

Children and War Impact: Children and War Impact
The Children and War Impact project is a chance for researchers to present their work and to learn about the latest research in the field of children and war. The project is open to all researchers who are interested in the field of children and war. The project is open to all researchers who are interested in the field of children and war.

APR. 2 2004

Teaching Technology & Collaboration Series in the Department of Zoology
The Department of Zoology is proud to present a series of talks on teaching technology and collaboration. The series is open to all faculty members who are interested in the field of teaching technology and collaboration.

Ecology 431 Seminar in Ecology
The Ecology 431 Seminar is a chance for researchers to present their work and to learn about the latest research in the field of ecology. The seminar is open to all researchers who are interested in the field of ecology.

Canadian Institute of University Studies
The Canadian Institute of University Studies is a chance for researchers to present their work and to learn about the latest research in the field of university studies. The institute is open to all researchers who are interested in the field of university studies.

APR. 3 2004

Academic Support Centre Open to Study Help
The Academic Support Centre is open to all students who are having difficulty with their studies. The centre is open to all students who are having difficulty with their studies. The centre is open to all students who are having difficulty with their studies.

Academic Support Centre Open to Study Help
The Academic Support Centre is open to all students who are having difficulty with their studies. The centre is open to all students who are having difficulty with their studies. The centre is open to all students who are having difficulty with their studies.

APR. 4 2004

University of Alberta Concert Band
The University of Alberta Concert Band is a chance for students to perform and to learn about the latest research in the field of music. The band is open to all students who are interested in the field of music.

Doctor of Music Recital Series
The Doctor of Music Recital Series is a chance for students to perform and to learn about the latest research in the field of music. The series is open to all students who are interested in the field of music.

APR. 5 2004

Centre for Neuroscience
The Centre for Neuroscience is a chance for researchers to present their work and to learn about the latest research in the field of neuroscience. The centre is open to all researchers who are interested in the field of neuroscience.

Music at Home
The Music at Home project is a chance for students to perform and to learn about the latest research in the field of music. The project is open to all students who are interested in the field of music.

General Faculty Council Meeting
The General Faculty Council Meeting is a chance for faculty members to present their work and to learn about the latest research in the field of faculty council. The meeting is open to all faculty members who are interested in the field of faculty council.

University of Alberta and Grant MacEwan College Jazz Bands
The University of Alberta and Grant MacEwan College Jazz Bands are a chance for students to perform and to learn about the latest research in the field of jazz. The bands are open to all students who are interested in the field of jazz.

APR. 5 TO APR. 7 2004

Electrical Engineering Capstone Design
The Electrical Engineering Capstone Design project is a chance for students to present their work and to learn about the latest research in the field of electrical engineering. The project is open to all students who are interested in the field of electrical engineering.

APR. 6 - 7 2004

Year End Awards
The Year End Awards are a chance for students to present their work and to learn about the latest research in the field of awards. The awards are open to all students who are interested in the field of awards.

APR. 6 2004

Rural Economy Seminar
The Rural Economy Seminar is a chance for researchers to present their work and to learn about the latest research in the field of rural economy. The seminar is open to all researchers who are interested in the field of rural economy.

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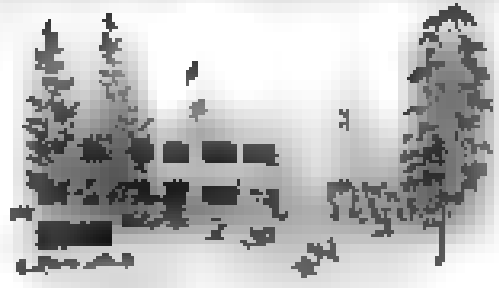


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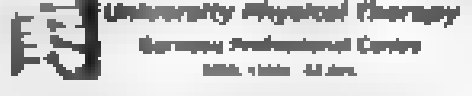
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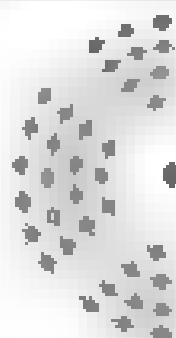
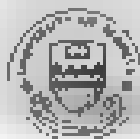
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Tuesday, May 4, 2004

Alumni House

3:30 - 5:30 pm (program 4:00)



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April 26	1030-1200	Low Preparation Active Learning Strategies
	1300-1400	Faculty Development, Just in Time! Strategies
April 27	1030-1200	Tools to Add Narration & Interactivity to PowerPoint
	1300-1400	Creating Interactive Simulations
	1300-1400	'Streetprint' Technology for Digital Collections
April 28	1030-1200	Creating Interactive Audio and Video in a Flash
April 29	1300-1400	Evaluation Tools for Large Classes



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Network Dynamics," in Room 550 General Services
Building, 3 pm.

History and Classics Colloquium Series: Film,
Kara Peltone, Director (Independent Production
Group OBA/LA) Screening: "War for Peace," followed
by discussion. Location: Humanities Centre, 2-230
pm to 4 pm.

Henry Marshall Tory Chair: Public Forum
Science with a social conscience: Digging
Down and Building Schools in Madagascar
Location: 4-01 Engineering Building, evening
Complex, 4 pm to 6 pm.

Final College Club Dinner and Lecture: Dr.
Richard Rabinowitz, Professor and Chair of Bio-
technology will present "Studying perisperm: a Jew-
ish 'You don't have to be a farmer to dig a little
Honey' at our final College Club Dinner and lecture
speaker for the 1901-2004 term on Tuesday
evening, April 26th. Dr. Rabinowitz is a dynamic and
humorous speaker and his presentation promises
to enlighten and stimulate discussion. The College
Club lecture series is open to all students and staff
of the University of Alberta and welcomes mem-
bers of the general public who have an interest
in science. Contact us for more information please
contact Dr. Susan Anderson, Assistant Department
of Medical Genetics at 467-0874 Location:
Saskatchewan Room, Faculty Club, 6 pm to 8 pm.

APR 07 2004

Health Promotion Seminar: Centre for Health
Promotion Studies, Research Seminar series: Dr.
Hans Rotstein, PhD, Professor, Joint appoint-
ment, Centre for Health Promotion Studies and the
Faculty of Physical Education and Recreation and
Director of the Physical Activity and Population
Health (PAHP) Research Laboratory. Physical activ-
ity and population health: a focus on the prevention
and management of diabetes. Location: Usherbell
Hall, 1-02, noon to 4 pm.

PHS Grand Rounds: Dr. Donald Schoenfeld
Adjunct Professor, Canadian Community Health
Survey topic: "Analysis and Dissemination."
Location: Room 2-01 Clinical Sciences Building, 7
pm to 9 pm.

Faculty of Education/McCalla Lecture: Have
you been reading lately? The Faculty of Education
invites you to a McCalla Lecture and a celebration
of research and teaching (award). Presentation:
Location: 2-15 Education North, reception with
Atrium Lounge Education North, 3-30 pm.

APR 08 2004

**Being in the Dark: Conversations About
Film:** Being in the Dark: Conversations About
Film. Author: Jeffrey G. Olick, University
"Conspicuous Consumption: The Modern Figure
of the sexual life." Why - Fictional sexual life
to other sexual life with being and eating.
Why historical and imaginary network: con-
sumption the sexual life to "consumption" from lack
the respect to his books: "Fiction and Fiction's
Fiction's Journey." Martin Lefebvre taught at the
University of Alberta and at University and he
is now: Interview: Research Chair in Film Studies
at the Mel Hoppenheim School of Cinema of
York University where he writes an Edition of
"Researches in Cinematography/Semiotic Inquiry." He has
published widely on film and semiotics. He is the
author of "Psychic de la Movie du monde: sémiotique
et filmation," and editor of "Examinations: essai"

in la nouvelle Publications de la Sorbonne and
Landscape and Film Semiotics, Routledge,
Location: NC 1-1, 7 pm.

History and Classics On: Awaiting Hanger
(University of Groningen) John Wilson, Lecture in
Greek, Location: TBA, Location: TBA, 2-58, 3-
30 pm to 4 pm.

APR 13 2004

The 10th John J. Collier Lecture in
Biophysics: Speaker: Professor John J. Collier,
Department of Molecular Biology, The Scripps
Research Institute, 2-108, A Topic: "Structure
Based Studies of Auto-catalytic Chemistry in Virus
Protein Mechanisms and Purpose." Location: 2-27
Medical Sciences Building, 3 pm.

Book Launch: Mountain Charles Book
Launch: Mountain Charles: The Alpine Adventures
of Margaret Fleming, 1847-1881 by Pearl Ann
Rabinowitz and Dr. Karen, 2-108, 2-108, 2-108, 2-108,
Physical Education and Recreation, launch their
book, "Mountain Charles: The Alpine Adventures of
Margaret Fleming, 1847-1881." Location: Heritage
Room, Athabasca Hall, noon to 4 pm.

**Post-McMurray Regional Alumni & Friends
Reception:** Join John Post-McMurray, who will
announce for an evening of renewing old acquaint-
ances, meeting new friends, and celebrating the
Faculty. Location: inside The Wedge Inn
and conference centre, 10000 44th Avenue, 7-30,
MacKenzie Boulevard, on McMurray, Alberta, 7-
30, 10-4 pm.

APR 14 2004

PHS Grand Rounds: Tapan Choudhury,
Adjunct Assistant Professor, Director, Health
Funding and Aging, Alberta Health and Wellness
Funding of research in Alberta: Models and
Innovation. Location: Room 1-1, 2, General Services
Building, 2 pm to 4 pm.

APR 15 2004

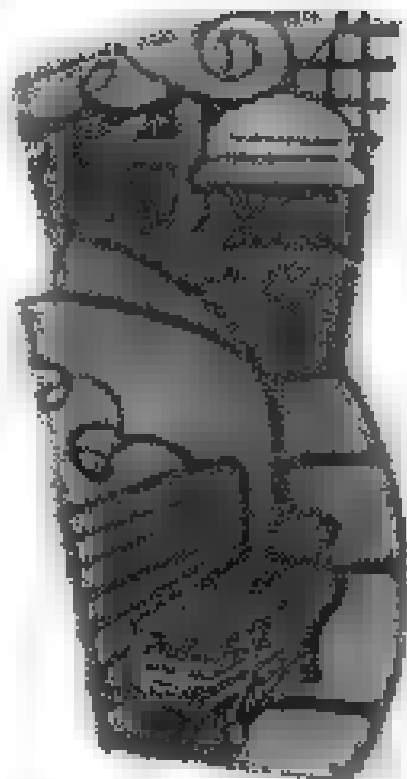
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to learn more about it. Free Location: Telus Centre,
Rm. 34, 10 am to 2 pm.

**Academic Women's Association Annual
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Members: \$20, Non-members: \$40, and the cheque
payable to Academic Women's Association to Grace
Hester AWA President, 2500 Arts Bldg., Location:
Pavilion Room, Faculty Club, 6:30 pm.

APR 18 2004

Molecular Biology and Genetics
Spring Symposium: Alexander Stewart from the
Cardiac Research Institute of the University of
Pittsburgh will be presenting a seminar on
"Transcriptional gene expression regulated by an
ubiquitous transcription factor." Location: 1A-41
Biological Sciences, 10 pm.

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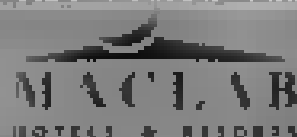
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The Jalisco Partnership Development Award was established to support continuing relationships with our priority partnerships in our sister state of Jalisco, Mexico. These are the Universidad Autónoma de Guadalajara, Universidad de Guadalajara, Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM-Guadalajara campus) and CONAFOR (National Forestry Agency). The award supports innovative practices that strengthen these priority partnerships by providing start-up funds for new initiatives such as student and faculty exchange, research and cooperative teaching.

The fund allocates a maximum of \$10,000.00 per year. Single or multiple year proposals are acceptable, and all reasonable expenses can be considered for funding provided they are not supported by any other source. The competition is open to University of Alberta faculty and staff. Application deadline: Monday, May 3, 2004. For more information, including application forms and terms of reference, please contact University of Alberta International, 1204 College Plaza, Edmonton, Tel: 493-5840/e-mail: Cecilia.martinez@ualberta.ca. Or visit our website: www.international.ualberta.ca

The International Partnership Fund (IPF) was established to support University of Alberta faculty and staff participating in exchange activities with the university's many partner institutions around the world. The fund provides financial support to faculty and staff engaged in the development and/or implementation of activities that contribute to sustainable and reciprocal relations with international academic partners. Awards may be used for travel by either the U of A staff/faculty member to visit an international partner, or for the faculty or unit to support a visitor from the partner. The fund favours activities that develop projects bringing an international focus to the academic, research and teaching mandate, and contribute to the internationalization objectives of the faculty. Support from the IPF will ideally complement multiple funding sources. Matching support from the individual and/or the department/faculty and partner institution is essential. Note: The IPF only applies to those

Institutions with which the U of A has a formal agreement. For guidelines, application forms and list of eligible partners, please contact: University of Alberta International, 1204 College Plaza, Tel: 403-584-0100/e-mail: cecilia.martinez@ualberta.ca, or visit our website: www.international.ualberta.ca. Application deadline: Monday, May 3, 2004.

Dr. Raymond Egerton of the Department of Physics received the 2004 Distinguished Scientist Award for the Physical Sciences from the Microscopy Society of America, an affiliate of the American Institute of Physics. It is the society's highest honour, given annually in recognition of internationally recognized research and distinguished contributions to microscopy. The award will be presented at the society's annual meeting in Savannah, Georgia, Aug. 1-5.

The deadline for receipt of applications to the IFF – FSIDA is 4:30 p.m., April 15, 2004. The next competition deadline dates are Oct. 15, 2004 and Jan. 15, 2005. This Fund exists to enable staff and graduate students (normally PhD candidates) of the University of Alberta to participate in research and in the international transfer of knowledge and expertise through partnerships in developing countries. Applications and guidelines are available on the University of Alberta International website (www.international.ualberta.ca) under "International Cooperation" and "Funding Opportunities" or from the FSIDA Secretary at University of Alberta International, 1204 College Plaza, 8215-112 Street, telephone 493-6440.

Nominations are being sought for volunteers who have made exceptional contributions in linking the university with the broader community. A volunteer from each of the academic staff, support staff and general public will be recognized with an award. Nomination deadline is May 3, 2006. Please visit ualberta.ca/governors/nomination or call 492-4951 for information.

Ads are charged at \$0.65 per word. Minimum charge: \$6.50. All advertisements must be paid for in full by cash or cheque at the time of their submission. Bookings may be made by fax or mail provided payment is received by mail prior to the deadline date. Pre-paid accounts can be set up for frequent advertisers. Please call 416-222-1222 for more information.

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U of A Ultimate Frisbee Club
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(TASAS)

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Total tuition fee is \$175.00 for members; membership in ELLA is \$20.00 per year. To join ELLA, and obtain a program outline, phone 482-5055 from 10:00 a.m. to 2:00 p.m., Tuesdays, Wednesdays or Thursdays. No academic pre-requisites required.

The deadline for registration is April 18.

The ELLA Spring Program for Older Adults is offered in cooperation with the U of A Faculty of Extension. ELLA is a non-profit association, run by volunteers committed to lifelong learning.



Shine a light on our BEST

Nominate a worthy volunteer for the Board of Governors' Award of Distinction

WHO: Award of Distinction nominees exemplify the spirit of innovation, generosity and commitment upon which the University of Alberta was founded. We seek individuals or groups who have made exceptional contributions to link the University of Alberta with the local, provincial, national and/or international community. Awards of Distinction are given to alumni and non-alumni in three categories: Academic, Non-Academic and Community. **WHAT:** Nominees are recognized for volunteer activities which promote goodwill between the University and the broader community and enhance the University's reputation for excellence. Established in 1997 by the Board of Governors to acknowledge the many extraordinary people who touch the University, Award of Distinction recipients are now enshrined on the University's Hall of Honour at the Tivoli Centre for the Arts. **WHY:** By nominating someone, you demonstrate your appreciation for their efforts, highlight the innovative individuals in your department or community and provide inspirational role models for the University's next generation of leaders. **HOW:** The complete nomination form with criteria and eligibility information is available online at www.ualberta.ca/governors/awards or from the office of the Board of Governors at 482-4793.



Nomination Deadline is May 3, 2004

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ONE BLOCK TO U OF A hospital and campus. Brand new two bedroom and two bathroom + den penthouse suites, and one 2-bedroom suite in concrete University Plaza building features gas fireplace, two bathrooms, balcony, heated underground parking, in-suite laundry. Starting at \$229,900. Wayne Moon, Re/Max river city, 439-7000.

CREEKSIDE – Luxury, four-level, two-bedroom Condo with loft and basement den. Bright, open design, upgrades, overlooking Millcreek Ravine, minutes from University, Old Strathcona and downtown. \$309,900. Ronald McElhenny, 492-2413 (w), 423-2705 (h).

BRAND NEW HOME, Jayman built, two storey, located in Riverside. Featuring three large bedrooms, 2.5 bathrooms, large gourmet kitchen, large bonus room located over double attached garage. Boasting over 1,650 sq ft. Numerous upgrades, including security system, laminate flooring, fireplace and pot lighting. Asking \$247,900. Call 431-4050.

BOOKS FOR SALE

CASH PAID for quality books. Edmonton Book Store, 433-1781, www.edmontonbookstore.com

MISCELLANEOUS

PARAGON TOASTMASTERS CLUB, improve your speaking and leadership skills. Noon to 1:00 p.m., only five minutes by URT. First Presbyterian Church, south side entrance, 10025 – 105 Street. Contact Linda (431-2345) or Robb, luis@spillers.com

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIP). The University of Alberta bases on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. For complete U of A job listings visit www.hrs.ualberta.ca

FACULTY OF ENGINEERING CO-OPERATIVE EDUCATION CO-ORDINATOR

The Co-operative Education Program within the Faculty of Engineering provides students with the opportunity to integrate their academic studies with related work experience. Although the program is already one of the largest in Canada, it continues to expand at a significant rate in response to student and employer demand. The Engineering Co-op Department, which administers the program, has an opening for a Co-operative Education Co-ordinator.

As a Co-operative Education Co-ordinator, you will:

- Market the program to potential employers of co-op students
- Administer the recruitment and student placement process
- Evaluate student work term performance through job site visits
- Counsel students

This involves interfacing with employers, students, and faculty. It requires excellent organizational, communications, marketing and interpersonal skills as well as familiarity with the Microsoft Office Suite including Microsoft Access. Candidates must have a vehicle and a valid Alberta driver's licence.

We are looking for an outgoing individual with a university degree, a strong commitment to customer service and a high level of energy. The successful candidate will have a strong interest and/or experience in marketing, personnel recruitment and working with students. This individual will be responsible for achieving the desired results within an assigned employer territory.

This is a full time Administrative Professional Officer position with a salary range of \$42,419 – \$43,623 and a comprehensive benefits package.

Deadline for receipt of resumes is April 16, 2004. Resumes should be forwarded to:

Dr. K. C. Porteous, P. Eng.
Associate Dean (Student and Co-op Services)
Engineering Co-op Department
66-050 Engineering Teaching and Learning Complex
University of Alberta
Edmonton, AB T6G 2V4

DEPARTMENT OF AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

Expanding to Meet the Needs of the Agri-Food Industry in the Next Century

UNIVERSITY OF ALBERTA, Edmonton. The Department of Agricultural, Food and Nutritional Science (AFNS) at the University of Alberta invites applicants with outstanding academic and leadership skills to apply for four tenure-track professor

positions as part of an exciting new initiative to meet the research and educational needs of the rapidly growing Agri-Food Industry in Alberta. The department has openings for three Canadian Research Chairs, a Canada Research Chair in Functional Foods and Nutraceuticals, a Canada Research Chair in Agricultural Biotechnology, a Canada Research Chair in Microbiology/Probiotics, and a Research Chair in Feed Science and Technology. The successful candidates will contribute to the department's mission "to achieve excellence in teaching and research in efficient and sustainable production, processing and utilization of safe and nutritious food to promote health". The positions reflect the University's commitment under a recently signed Memorandum of Agreement between the U of A, Alberta Agriculture, Food and Rural Development and the Alberta Research Council to work together to expand the agriculture-based research capacity in Alberta.

Applicants must have a PhD in Molecular Biology, Microbiology, Biochemistry, Nutrition, Food Science, Bio-Engineering or related discipline, and extensive research credentials as demonstrated by publications and awards. The candidates will have the vision and proven talent essential to building successful collaborative research programs that cross institutional and disciplinary boundaries and lead to technology commercialization. These dynamic individuals must have excellent communication and interpersonal skills, experience in undergraduate and graduate student teaching, a track record of successful partnering with industry, government and senior representatives of funding and regulatory agencies, and high energy and personal commitment to developing the agri-food industry.

The U of A, one of Canada's premier research institutions, offers excellent research facilities and equipment including a new Agri-Biotechnology Centre, a Human Nutrition Centre, Large Animal Facilities and a soon-to-be built Agri-Food Discovery Place. Alberta's strong scientific base and abundant agricultural resources provide a superb foundation for leadership in the emerging functional foods and agricultural biotechnology industry.

The Canada Research Chair (CRC) program was established by the Government of Canada to enable Canadian universities to achieve the highest levels of research excellence in the global, knowledge-based economy (<http://www.chairs.gc.ca>).

For further information on these positions visit <http://www.daviespark.com/careers.html>. Applications, including a statement of research and teaching interests, curriculum vitae, and the name of three referees, should be sent to: Elizabeth Hurley, Davies Park Executive Search Consultants, 904 Oxford Tower, 10235 101 Street, Edmonton, Alberta T5J 3G1 Phone: (780) 420-9900 Fax: (780) 426-2936 Email: elizabethh@daviespark.com. Closing date for applications is April 30, 2004 or until a suitable candidate is found.

For complete University of Alberta job listings visit:

www.hrs.ualberta.ca/

The ALBERTA HERITAGE FOUNDATION for MEDICAL RESEARCH



Sean Molofee developed severe kidney disease four years ago when he was 25. His first kidney transplant lasted only a few hours before he experienced complications. A month ago, Sean had a second kidney transplant and his physician Dr. Sita Gourishankar, says Sean's new kidney is "working beautifully." Sean is planning to train as a massage therapist and is ready to take on life. Sean's story could have been grim without the expertise of Dr. Gourishankar, whose investigations into the causes of kidney transplant failure have earned her funding from the Alberta Heritage Foundation for Medical Research. With the help of the Heritage Foundation, researchers like Dr. Gourishankar are improving the health and quality of life of Albertans and people around the world.

Dr. Gourishankar is one of twenty researchers in six faculties at the University of Alberta who have been offered AHFMR funding this year. AHFMR funding provides salaries, equipment, laboratory start-up, and other support for top health researchers in our province. Over the past five years, AHFMR has invested more than \$240 million in health research in Alberta.

CONGRATULATIONS TO OUR 2004 AWARDEES AT THE UNIVERSITY OF ALBERTA:

Colin Anderson (diabetes)
David Brindley (cancer)
Alexander Clark (heart health)
William Colmers (obesity/epilepsy)
Nicholas Coupland (depression)
David Evans (viral disease)
Sita Gourishankar (kidney disease/
transplantation)
Jeffrey Johnson (healthcare delivery)
Satyabrata Kar (Alzheimer's disease)
Ernest Lam (oral cancer)
Richard Lehner (cholesterol)
Karen Madsen (Crohn's disease)
Sumit Majumdar (improving
quality of care)
Ronald Moore (bladder cancer)
Ronald Mosnikoff (physical activity)
Linda Rich-Kranz (genetics)
Jana Rieger (cancer rehabilitation)
James Shapiro (diabetes)
Noreen Willows (obesity in children)
Richard Wozniak (genetics)

FOR MORE INFORMATION about these awards,
and for general and funding information on AHFMR,
please call (780) 423-5727

e-mail: ahfmrinfo@ahfmr.ab.ca

write us at: AHFMR, 1500, 10104 - 103 Avenue,
Edmonton, Alberta, T5J 4A7.

or check our website at: www.ahfmr.ab.ca

University of Alberta website: www.ualberta.ca



AHFMR

ALBERTA HERITAGE FOUNDATION
FOR MEDICAL RESEARCH



UNIVERSITY OF
ALBERTA

CLASH OF THE TITANS

ADMINISTRATORS VS STUDENTS' UNION IN ULTIMATE ULTIMATE FRISBEE CHALLENGE

By Richard Colman

When university administrators were asked to square off against the Students' Union as part of a day-long fundraising event, vice-presidents and administrators did what they always do when faced with a daunting challenge – no, they didn't strike a committee to study it – they clenched their jaws and threw themselves headlong into the matter. Literally.

While different players will give you different answers, a straw poll indicates the MVP for the University Hall team, dubbed the Olden Bears, was Dr. Gary Kachanoski, vice-president (research).

"He was just going crazy, diving for passes, running all over the place," said Jimmy Jeong, a graphics designer for the SU who has played Ultimate at a national level. "He didn't catch them all, but it sure looked good."

Kachanoski says, modestly, that field conditions helped. "The snow helped. You could sort of dive for the Frisbee without plowing into the dirt," he said.

His own selection for MVP would be Jerin Nichols, a registrar's office staffer who plays Ultimate at the national level.

"She was the only one who knew the rules, which shows you the level of understanding we had going into this," Kachanoski said.

Although a force on the field himself, Provost and Vice-President (Academic) Dr. Carl Anshelm said younger, more experienced players carried the day in the one-point victory over the Students' Union.

"They were pretty good at recruitment," Jeong joked. "They had three or four different national-caliber players."

Anshelm said dealing with the students in such a casual manner had its own rewards.

"It's funny when shirts and coats and ties come off how quickly you can have a human-scale conversation on the playing field. I found that very enjoyable. When the students didn't like some of my clunker efforts to suppress their passions, they let me know right away. I found it an awful lot of fun and hope we can do it more often," he said.

Vice-President (External Relations) Susan Green, whose sons were among the University Hall recruits, couldn't say enough about the experience. "I loved the challenge, and there was great camaraderie. It was a great opportunity to interact on a very informal basis," she said. "This was a terrific idea."

The day-long series of Ultimate games capped off the university's first Wellness Week and raised more than \$1,500 for KidsSport, a local charity. ■



Newly elected Students' Union President Jordan Blatz winds up to launch a pass.



You can bet Vice-President (Research) Dr. Gary Kachanoski caught the disc – he did regularly.



Olden Bears player Scott Rae intercepts a pass to SU opponents.



Olden Bears fans cheer on their team, doing the wave.



Provost and Vice-President (Academic) Dr. Carl Anshelm (left) and Fops Zehnpfennig, special advisor to the president, have SU player Jimmy Jeong cornered.



No hard feelings: the two teams pose for a post-game portrait.

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